RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____ 10/506, 630 A _____
Source: _____ PCT _____
Date Processed by STIC: _____ 12/22/2005 _____

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: _10/506, 630 A_

CRF Edit Date: _12/22/2003_
Edited by: _DA_

____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

____ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

____ Inserted mandatory headings/numeric identifiers, specifically:

_____

____ Moved responses to same line as heading/numeric identifier, specifically:

_____

____ Other: _Entered the Base numbers_

_____

_____

Revised 09/09/2003

PCT

RAW SEQUENCE LISTING   DATE: 12/22/2005
PATENT APPLICATION: US/10/506,630A   TIME: 12:41:19

Input Set : **N:\DA\pto.da.txt**
Output Set: **N:\CRF4\12222005\J506630A.raw**

```
   4 <110> APPLICANT: GOKHALE, Rajesh
   5        TSUJI, Stuart
   6        KHOSLA, Chaitan
   7        WU, Nicholas
   8        CANE, David
  10 <120> TITLE OF INVENTION: METHODS TO MEDIATE POLYKETIDE SYNTHASE
  11        MODULE EFFECTIVENESS
  13 <130> FILE REFERENCE: 300622004601
  15 <140> CURRENT APPLICATION NUMBER: US 10/506,630A
C--> 16 <141> CURRENT FILING DATE: 2004-09-03
  18 <150> PRIOR APPLICATION NUMBER: PCT/US03/06910
  19 <151> PRIOR FILING DATE: 2002-03-04
  21 <150> PRIOR APPLICATION NUMBER: US 10/091,244
  22 <151> PRIOR FILING DATE: 2002-03-04
  24 <150> PRIOR APPLICATION NUMBER: 60/361,758
  25 <151> PRIOR FILING DATE: 2002-03-04
  27 <160> NUMBER OF SEQ ID NOS: 41
  29 <170> SOFTWARE: FastSEQ for Windows Version 4.0
  31 <210> SEQ ID NO: 1
  32 <211> LENGTH: 15
  33 <212> TYPE: DNA
  34 <213> ORGANISM: Artificial Sequence
  36 <220> FEATURE:
  37 <223> OTHER INFORMATION: Nhe site upstream of the KS at position 7570
  39 <400> SEQUENCE: 1
  40 gctagcgagc cgatc                                         15
  43 <210> SEQ ID NO: 2
  44 <211> LENGTH: 15
  45 <212> TYPE: DNA
  46 <213> ORGANISM: Artificial Sequence
  48 <220> FEATURE:
  49 <223> OTHER INFORMATION: Nhe site upstream of the KS at position 28710
  51 <400> SEQUENCE: 2
  52 gctagcgacc cgatc                                                     15
  55 <210> SEQ ID NO: 3
  56 <211> LENGTH: 31
  57 <212> TYPE: PRT
  58 <213> ORGANISM: Artificial Sequence
  60 <220> FEATURE:
  61 <223> OTHER INFORMATION: Chemically synthesized
W--> 63 <221> NAME/KEY: misc feature
  64 <223> OTHER INFORMATION: N-terminal linker
W--> 66 <400> 3
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RAW SEQUENCE LISTING   DATE: 12/22/2005
PATENT APPLICATION: US/10/506,630A   TIME: 12:41:19

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```
67 Met Thr Asp Ser Glu Lys Val Ala Glu Tyr Leu Arg Arg Ala Thr Leu
68  1               5                  10                  15
69 Asp Leu Arg Ala Ala Arg Gln Arg Ile Arg Glu Leu Glu Ser Asp
70                  20                  25                  30
73 <210> SEQ ID NO: 4
74 <211> LENGTH: 25
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Primer
81 <400> SEQUENCE: 4
82 actagtaggc tgttcgcggc ctcac         25
85 <210> SEQ ID NO: 5
86 <211> LENGTH: 24
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: Primer
93 <400> SEQUENCE: 5
94 gggaattcag gtcctctccc ccgc          24
97 <210> SEQ ID NO: 6
98 <211> LENGTH: 23
99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Primer
105 <400> SEQUENCE: 6
106 ccatatggtg gtcgaccggc tcg                              23
109 <210> SEQ ID NO: 7
110 <211> LENGTH: 24
111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: primer
117 <400> SEQUENCE: 7
118 gaattcctac aggtcctctc cccc                             24
121 <210> SEQ ID NO: 8
122 <211> LENGTH: 22
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: primer
129 <400> SEQUENCE: 8
130 ccatatgctg cgcgaccggc tg            22
133 <210> SEQ ID NO: 9
134 <211> LENGTH: 25
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
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139 <223> OTHER INFORMATION: primer
141 <400> SEQUENCE: 9
142 gaattctcaa tcgccgtcga gctcc          25
145 <210> SEQ ID NO: 10
146 <211> LENGTH: 23
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: primer
153 <400> SEQUENCE: 10
154 ccatatggtg gtcgaccggc tcg          23
157 <210> SEQ ID NO: 11
158 <211> LENGTH: 23
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: primer
165 <400> SEQUENCE: 11
166 actagtgagg aaaccggcga ccg          23
169 <210> SEQ ID NO: 12
170 <211> LENGTH: 22
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: primer
177 <400> SEQUENCE: 12
178 ccatatgctg cgcgaccggc tg          22
181 <210> SEQ ID NO: 13
182 <211> LENGTH: 24
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: primer
189 <400> SEQUENCE: 13
190 gaattcttag ccgagctcgg cgtc          24
193 <210> SEQ ID NO: 14
194 <211> LENGTH: 23
195 <212> TYPE: DNA
196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: primer
201 <400> SEQUENCE: 14
202 ccatatggtg gtcgaccggc tcg          23
205 <210> SEQ ID NO: 15
206 <211> LENGTH: 27
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: primer
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213 <400> SEQUENCE: 15
214 gaattcttag aacagcctgt cccgcag          27
217 <210> SEQ ID NO: 16
218 <211> LENGTH: 27
219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: primer
225 <400> SEQUENCE: 16
226 ctgctcgaga ggctgttcgc ggcctca          27
229 <210> SEQ ID NO: 17
230 <211> LENGTH: 27
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: primer
237 <400> SEQUENCE: 17
238 cccgctgagc ctacaggtcc tctcccc          27
241 <210> SEQ ID NO: 18
242 <211> LENGTH: 18
243 <212> TYPE: PRT
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Intra-polypeptide linker
249 <400> SEQUENCE: 18
250 Gly Gly Ala Thr Gly Ala Glu Gln Ala Ala Pro Ala Thr Thr Ala Pro
251 1               5                   10                  15
252 Val Asp
255 <210> SEQ ID NO: 19
256 <211> LENGTH: 18
257 <212> TYPE: PRT
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Intra-polypeptide linker
263 <400> SEQUENCE: 19
264 Val Gly Asp Ala Asp Gln Ala Ala Val Arg Val Val Gly Ala Ala Asp
265 1               5                   10                  15
266 Glu Ser
270 <210> SEQ ID NO: 20
271 <211> LENGTH: 21
272 <212> TYPE: PRT
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Intra-polypeptide linker
278 <400>.SEQUENCE: 20
279 Val Gly Ala Ala Glu Ala Glu Gln Ala Pro Ala Leu Val Arg Glu Val
280 1               5                   10                  15
281 Pro Lys Asp Ala Asp
282             20
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285 <210> SEQ ID NO: 21
286 <211> LENGTH: 17
287 <212> TYPE: PRT
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Intra-polypeptide linker
293 <400> SEQUENCE: 21
294 Phe Gly Ser Ala Ala Asn Arg Pro Ala Glu Ile Gly Thr Ala Ala Ala
295 1               5                   10                  15
296 Glu
300 <210> SEQ ID NO: 22
301 <211> LENGTH: 17
302 <212> TYPE: PRT
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Intra-polypeptide linker
308 <400> SEQUENCE: 22
309 Leu Gly Glu Arg Pro Ala Ala Pro Ala Pro Val Thr Arg Asp Val Ser
310 1               5                   10                  15
311 Asp
315 <210> SEQ ID NO: 23
316 <211> LENGTH: 19
317 <212> TYPE: PRT
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Intra-polypeptide linker
323 <400> SEQUENCE: 23
324 Gly Glu Thr Val Ala Gly Ala Pro Ala Thr Pro Val Thr Thr Val Ala
325 1               5                   10                  15
326 Asp Ala Gly
330 <210> SEQ ID NO: 24
331 <211> LENGTH: 21
332 <212> TYPE: PRT
333 <213> ORGANISM: Artificial Sequence
335 <220> FEATURE:
336 <223> OTHER INFORMATION: Intra-polypeptide linker
338 <400> SEQUENCE: 24
339 Glu Leu Phe Thr Gly Glu Asn Pro Ala Pro Val Arg Gly Pro Val Ser
340 1               5                   10                  15
341 Ala Val Gly Gln Asp
342             20
345 <210> SEQ ID NO: 25
346 <211> LENGTH: 21
347 <212> TYPE: PRT
348 <213> ORGANISM: Artificial Sequence
350 <220> FEATURE:
351 <223> OTHER INFORMATION: Intra-polypeptide linker
353 <400> SEQUENCE: 25
354 Glu Leu Phe Thr Gly Glu Asn Pro Ala Pro Val Arg Gly Pro Val Ser
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/22/2005
PATENT APPLICATION: **US/10/506,630A**   TIME: 12:41:20

Input Set : **N:\DA\pto.da.txt**
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<u>Invalid Line Length:</u>
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:2; Line(s) 52

VERIFICATION SUMMARY   DATE: 12/22/2005
PATENT APPLICATION: US/10/506,630A   TIME: 12:41:20

Input Set : **N:\DA\pto.da.txt**
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```
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:63 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:63 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:66 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
```